

# User Manual

## TesiP@n Graphics Panel

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# 1 Important Notes

## 1.1 Symbols

The symbols in this manual are used to draw your attention on notes and dangers.



### **Danger**

This symbol is used to refer to instructions which, if ignored or not carefully followed could result in personal injury.



### **Notes**

This symbol indicates application tips or supplementary notes.



### **Reference to source of information**

This symbol refers to detailed sources of information on the current topic.

## 1.2 Safety Notes

- Read this manual carefully before using the operating device. Keep this manual in a place where it is always accessible to all users.
- Proper transportation, handling and storage, placement and installation of this product are prerequisites for its subsequent flawless and safe operation.
- This user manual contains the most important information for the safe operation of the device.
- The user manual, in particular the safety notes, must be observed by all personnel working with the device.
- Observe the accident prevention rules and regulations that apply to the operating site.
- Installation and operation must only be carried out by qualified and trained personnel.

### 1.2.1 Intended Use

- The device is designed for use in the industry.
- The device is state-of-the art and has been built to the latest standard safety requirements. However, dangerous situations or damage to the machine itself or other property can arise from the use of this device.
- The device fulfills the requirements of the EMC directives and harmonized European standards. Any modifications to the system can influence the EMC behavior.



This is a class A device. This device may cause radio interference in residential areas. In this case, the user may be required to introduce appropriate countermeasures, and to bear the cost of same.

## 1.3 Target Group

All configuration, programming, installation, commissioning, operating and maintenance work in connection with the automation system must be performed by trained personnel only (e.g. qualified electricians, electrical engineers, etc.).

The configuration and programming personnel must be familiar with the safety concepts of automation technology.

The operating personnel must have been trained in handling the controller and be familiar with the operating instructions.

The installation, commissioning and maintenance personnel must have an education which entitles them to work on automation systems.

## 2 Commissioning



Commission the device as described in the chapter on **Mounting and Commissioning** of the user manual for the device.

After applying the supply voltage, the operating device launches the BootLoader from the internal Flash memory. During this process, the status LEDs keep flashing at short intervals.

When the boot process is complete, the following start-up screen appears:



Figure 2-1 Start-up screen

1. Tap the **Start** button.

5310

The dialog containing the license agreement opens. You need to accept the license agreement to be able to operate the device:

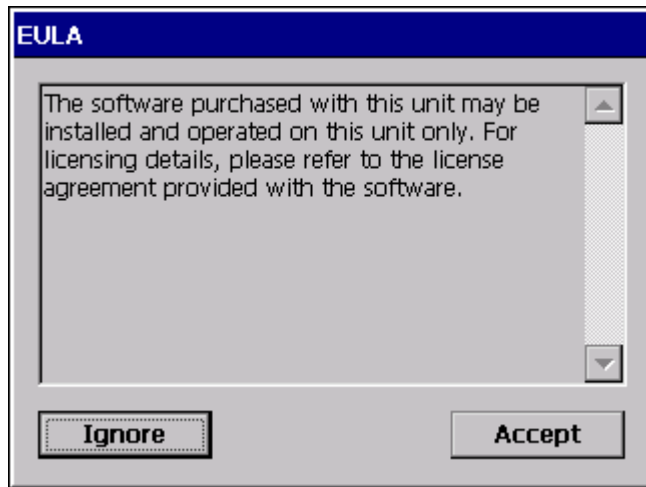


Figure 2-2 EULA dialog

2. To accept the license agreement, tap the **Accept** button. Or:
3. If you do not want to accept the license agreement, tap the **Ignore** button. This will take you back to the start-up screen.

If you accepted the license agreement, the configuration screen appears after a short period of time:



Figure 2-3 Configuration screen

The service tool appears along with the configuration screen.

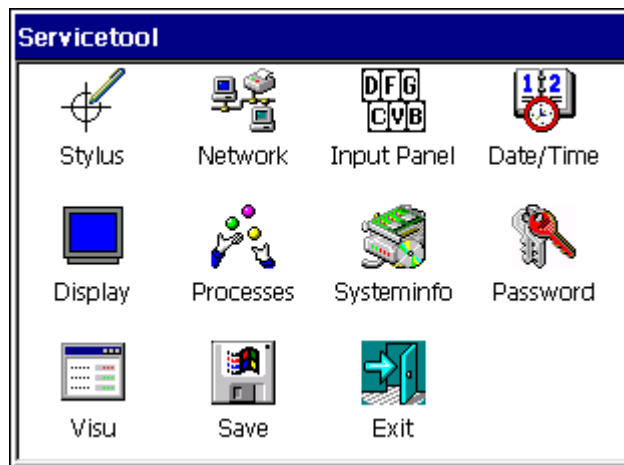


Figure 2-4 Servicetool window

To open the service tool (if it does not open automatically), carry out the following steps:

1. Tap the **Configure** button.

You can use the service tools to configure the operating device.

The most important settings initially are the network and the operating mode settings. Note that you only need to configure the network if you are not using DHCP service! If you are using DHCP service, you can skip items 1. to 3.

To start network configuration, carry out the following steps:

1. Tap the **Network** icon.
2. Change the network settings.



See „Configuring the Network“ on page 1-14.

3. Tap **OK** to confirm all settings.



At this point, the network settings have not been saved yet! To save the settings, you need to tap either the **Save** or the **Exit** button in the **Servicetool** window! If you tap **Exit**, make sure you tap **Yes** in the following dialog to activate the saving process!



You need to reboot the device in order for the new network settings to become effective!

To do so, press the **Reset** switch on the rear of the device. Use a thin object (for example a ballpoint pen) to actuate this switch.

After the device has been booted, the configuration screen is displayed again. It continues to appear until you define the operating mode - after which it will no longer be displayed.

4. Tap the **Visu** icon to select the operating mode for the operating device.



See „Activating/Deactivating the Visualization“ on page 1-25.

If your Compact Flash card contains a complete project which you want to make use of immediately, select the operating mode **Standard**. The project is started from the Compact Flash Card and you will see the first screen of the visualization application.

If you are still in the phase of developing the visualization application and you want to test it, select the operating mode **Development**. The configuration screen and the **Visu** dialog are closed. The Windows CE desktop is displayed.

On the desktop you will see icons for

- the Recycle Bin,
- the Explorer (My Computer) and
- the Pocket Internet Explorer (Internet Explorer).

The remote connection (transport service) program is started automatically.

## 2.1 Help Keys



Use this key to show a soft keyboard. To hide the keyboard, press the key again.



Use this key to open the Task Manager in order to change to another task or use this key to close the Task Manager. When you press this key again, the dialog for changing to another task is closed.



Use this key to open the Service tool. To exit the Service tool, press the key again.



Use this key to open the context menu, which can usually be reached by pressing the right mouse button.



Use this key to set the contrast and the brightness.

To define the contrast / brightness setting, use the key combinations shown below as follows:

To increase the contrast:



To increase the brightness:



To reduce the contrast:



To reduce the brightness:



### 2.1.1 Soft Keyboard

When you call-up the soft keyboard, it initially displays only small (lower case) characters, numbers and those special characters that are available on a hardware keyboard when the Shift key is not pressed.

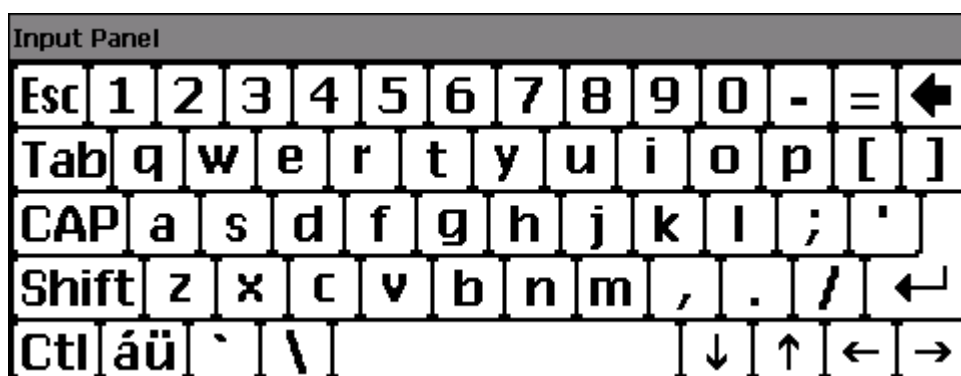


Figure 2-5 Soft keyboard with small (lower case) characters

When you tap the Shift key, the software keyboard provides large (upper case) characters and those special characters that are available on a hardware keyboard when the Shift key is pressed.

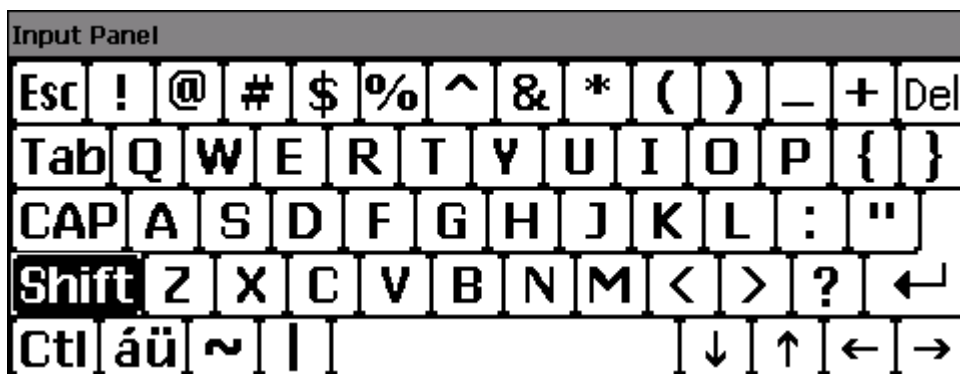


Figure 2-6 Soft keyboard with large (upper case) characters

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### 3 Configuration with the Servicetool

Launch the Servicetool to be able to configure the device.

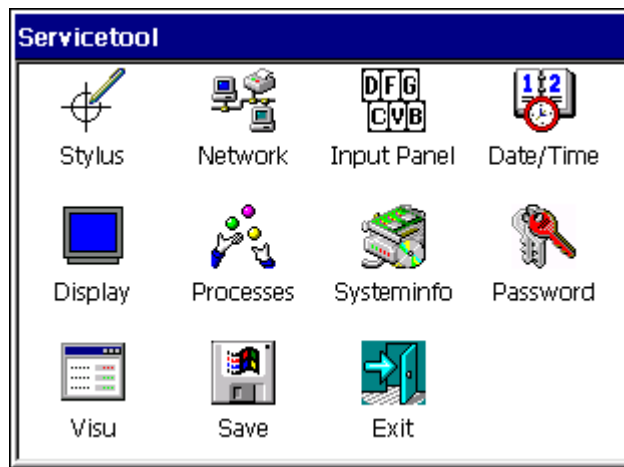


Figure 3-1 Servicetool window

The icons stand for the following configuration options:

<b>Stylus</b>	To configure the touch screen
<b>Network</b>	To configure the network
<b>Input Panel</b>	To configure the soft keyboard
<b>Date/Time</b>	To set the date and time
<b>Display</b>	To set the contrast and/or brightness
<b>Processes</b>	To view process data
<b>Systeminfo</b>	To view device data
<b>Password</b>	To enter the password
<b>Visu</b>	To set the operating mode
<b>Save</b>	To save changes
<b>Exit</b>	To save changes and exit the service tool

Tap the icon to start the configuration. After finishing the configuration, you will return to the Servicetool window.



At this point, the network settings have not been saved yet! To save the settings, you need to tap either the **Save** or the **Exit** button in the **Servicetool** window! If you tap **Exit**, make sure you tap **Yes** in the following dialog to activate the saving process!



You need to reboot the device in order for the new network settings to become effective!

To do so, press the **Reset** switch on the rear of the device. Use a thin object (for example a ballpoint pen) to actuate this switch.

### 3.1 Calibrating the Touch Screen

1. Tap the Service tool key.
2. Then tap the **Stylus** icon.

The **Stylus Properties** dialog opens.

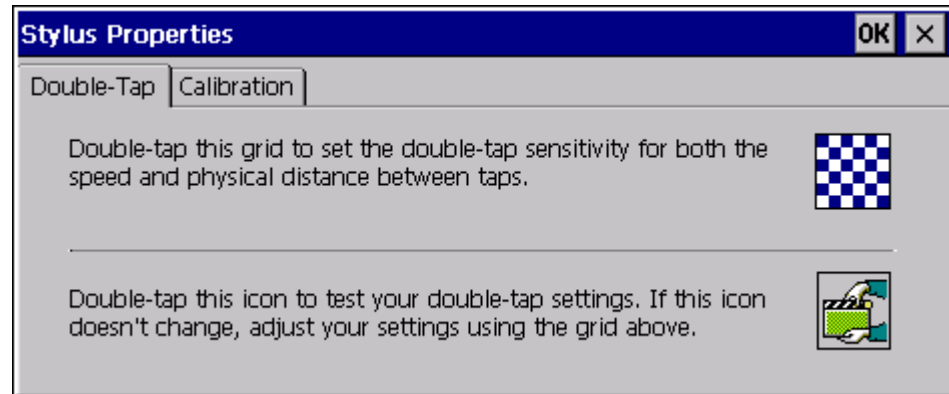


Figure 3-2 Stylus Properties dialog, Double-Tap tab

The **Double-Tap** index card is displayed by default.

#### 3.1.1 Defining the Double-Tap Settings

To test the settings defined for the „double-tap“, tap the test icon twice.

To change the current double-tap settings, tap the checkered pattern (grid) twice. The speed and the physical distance between the two taps will be recorded as the new double-tap settings.

#### 3.1.2 Calibrating the Touch Screen

Open the **Calibration** index card.

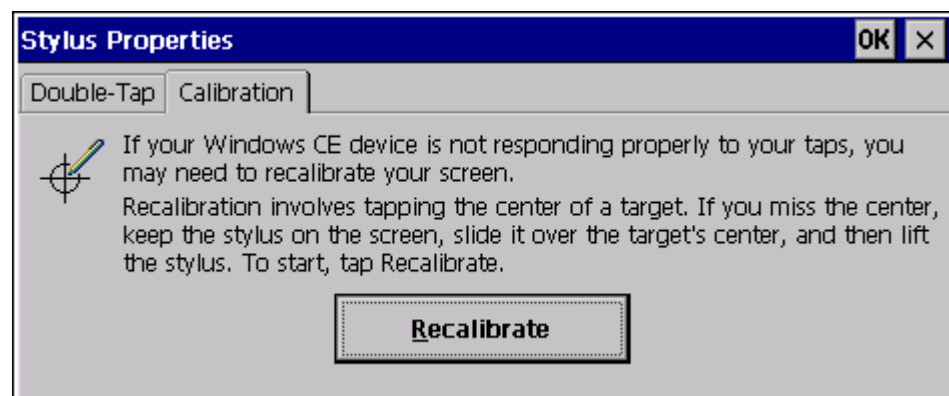


Figure 3-3 Stylus Properties dialog, Calibration tab

To change the calibration settings of the touch screen carry out the following steps:

1. Tap the **Recalibrate** button to start the calibration process.
2. Tap and hold the center of the cross (precisely the center) until the cross changes its position.

The calibration process is complete when the cross disappears. At this point, the changes still need to be saved. The device waits 30 seconds for you to tap the touch screen for this purpose. If you do not tap the touch screen within this time period, the new settings will not be stored. In this case, the device continues to work with the old settings.

## 3.2 Configuring the Network

### 3.2.1 Configuring the Adapter

The first part of the network configuration concerns the setting of the network adapter. The operating device has an integrated network adapter, which cannot be replaced.

To configure the network adapter carry out the following steps:

1. Tap the Service tool key.
2. Then tap the **Network** icon.

The **Network Configuration** dialog opens.

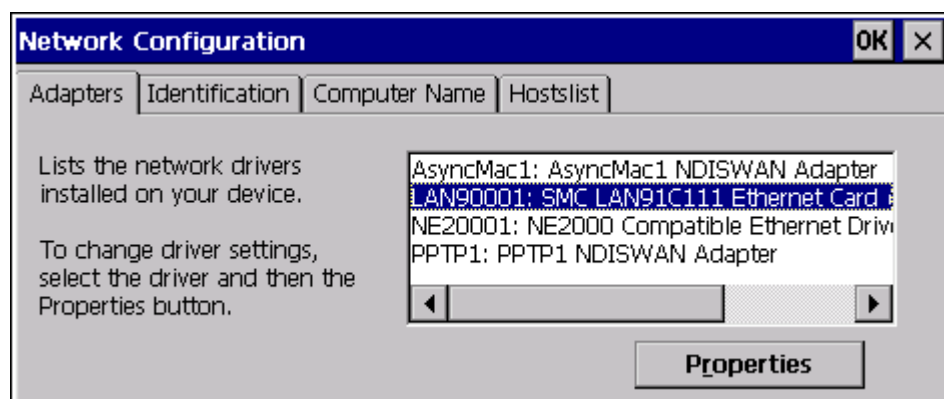


Figure 3-4 Network Configuration dialog, Adapters index card

1. Select the network adapter **LAN90001**.
2. Tap the **Properties** button to change the adapter settings.

The dialog for specifying the adapter settings opens.

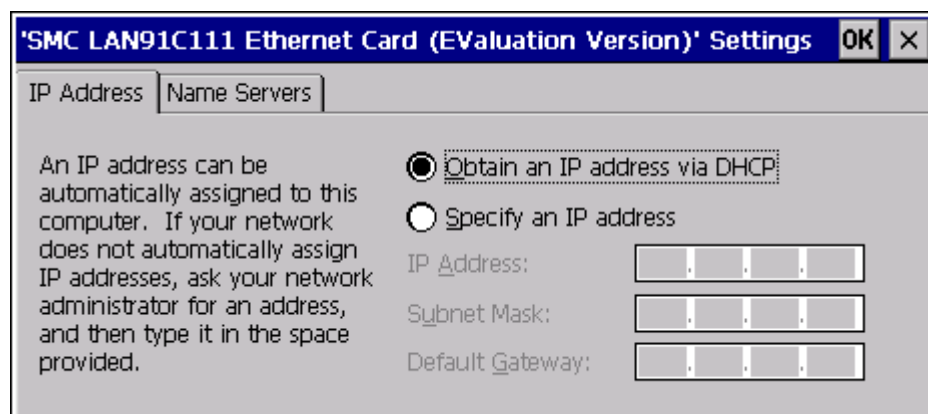


Figure 3-5 Network Configuration dialog, IP Address index card

The **IP Address** index card is displayed by default.

3. Specify whether you want the DHCP service to assign an IP address to the device dynamically.
4. If you are unable to use DHCP, enter at least one fixed IP address and one subnet mask.

The configuration for name servers is not urgently necessary. If you are using a DHCP service or fixed IP addresses you can pass the following configuration steps.

5. Open the **Name Servers** index card.

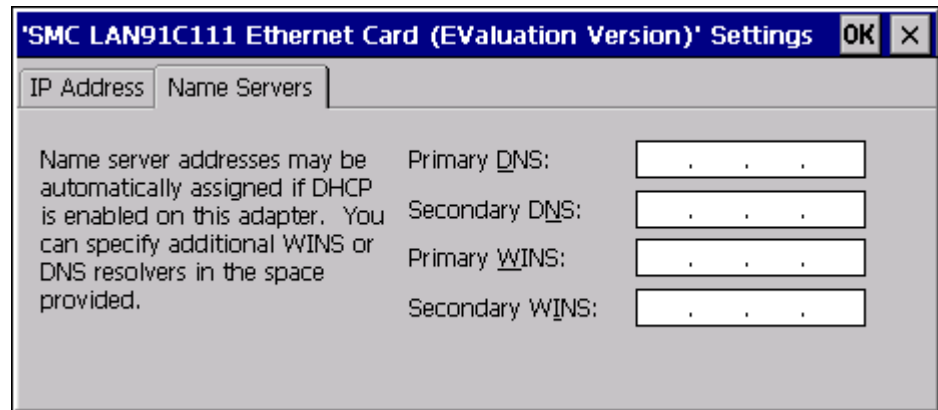


Figure 3-6 Network Configuration dialog, Name Servers index card

6. If you do not have the DHCP service assign the IP addresses dynamically, enter the IP address of the DNS server and of the WINS server into this index card.
7. Click **OK** to close the dialog.



For the IP address settings to become active, the device must be restarted!

The **Adapters** index card is displayed again.

### 3.2.2 Entering the User Name and Password

To enter the user name which you use to log on to an enabled network drive, carry out the following steps:

1. Open the **Identification** index card.

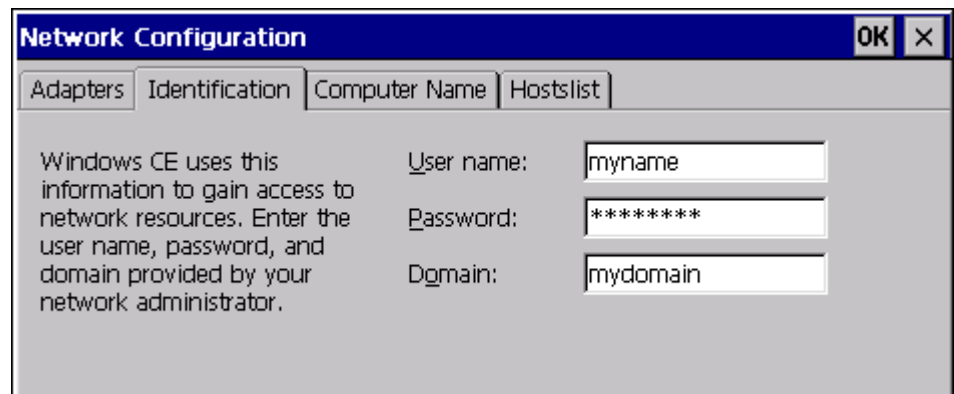


Figure 3-7 Network Configuration dialog, Identification index card

2. Enter your user name into the **User name** field.
3. Enter your password into the **Password** field.
4. Enter the name of the domain into the **Domain** field.



The user name, password and domain information are stored in the device. Saving this information represents a general security risk!

### 3.2.3 Entering the Computer Name

To assign the device a unique name with which it will be represented on the Microsoft network, carry out the following steps:

1. Open the **Computer Name** index card.

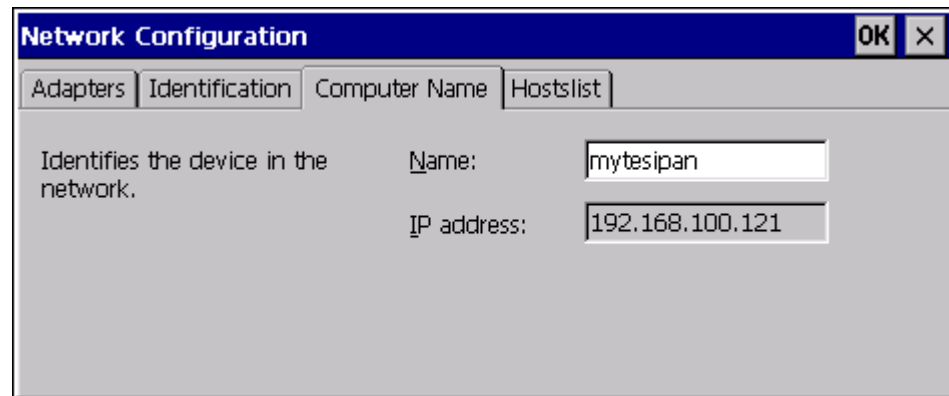


Figure 3-8 Network Configuration dialog, Computer Name index card

2. Enter a name for the device into the **Name** field.

To be able to connect to the network drive, you first need to change the preset name.

Your own IP address of the operating device appears in the **IP address** field.

### 3.2.4 Creating a Host List

If a name server is not available, you can create a hosts list so that an assignment between computer names and IP address is possible.

To manage the host list carry out the following steps:

1. Open the **Hostslist** index card.

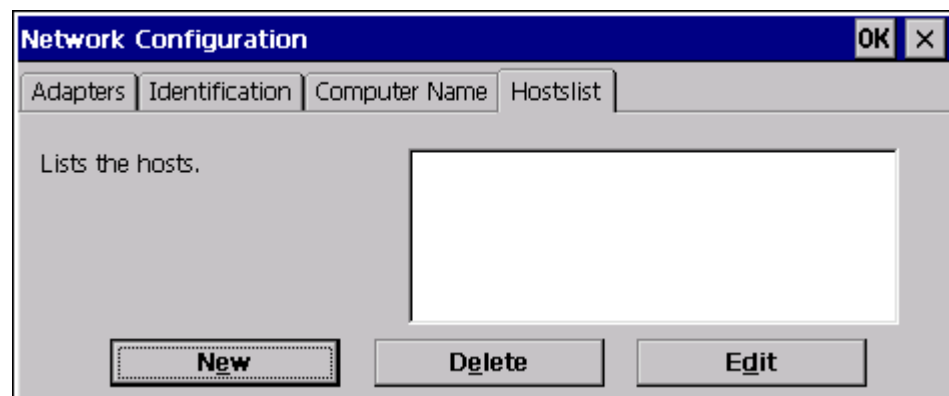


Figure 3-9 Network Configuration dialog, Hostslist index card

2. Tap the **New** button to specify a new host.

The **Host entry** dialog opens.

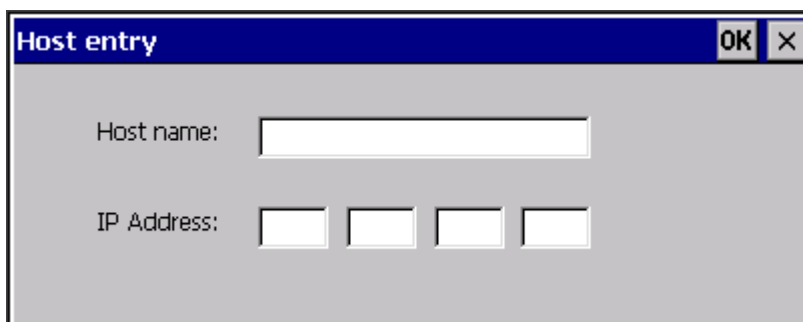


Figure 3-10 Host Entry dialog

3. Enter the new host name into the **Host name** field.
4. Enter the associated IP address into the **IP Address** fields.
5. Tap **OK** to confirm the entered information.

The **Hostslist** index card is displayed again.

6. To delete a selected entry from the host list, tap the **Delete** button.
7. To edit a selected host list entry, tap the **Edit** button.
8. Then tap **OK** to confirm your settings.



At this point, the entered network settings have not been saved yet! To save the settings you need to tap either the **Save** button or the **Exit** button in the **Service-tool** window. If you tap on the **Exit** button a secondary dialog opens where you have to activate the saving procedure with **Yes**!

### 3.3 Configuring the Soft Keyboard

1. Tap the Service tool key.
2. Then tap the **Input Panel** icon.

The **Input Panel Properties** dialog opens.

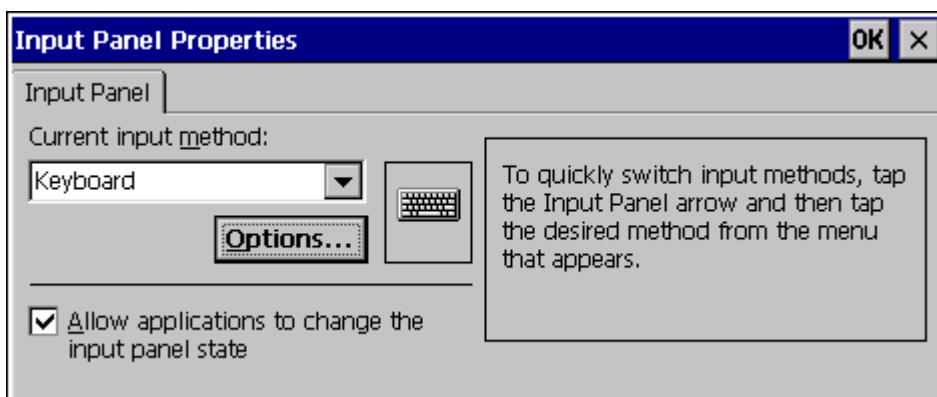


Figure 3-11 Input Panel Properties dialog

In the **Current input method** field, you see the current selection for the soft keyboard input device. These settings cannot be changed.

1. Tap the **Options** button.

The **Soft Keyboard Options** dialog opens.

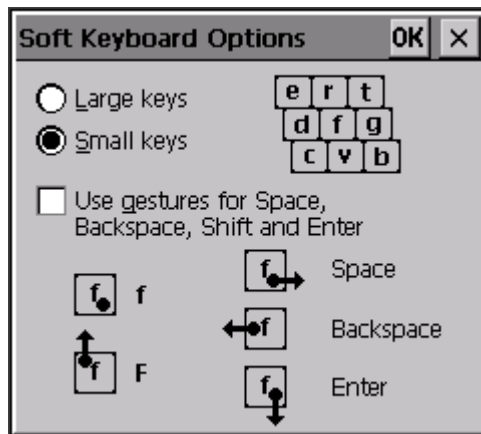


Figure 3-12 Soft Keyboard Options dialog

The dialog displays the current settings for the soft keyboard.

2. Select the **Large keys** radio button if you want the keyboard to be displayed with large (upper case) keys.
3. Select the **Small keys** radio button if you want the keyboard to be displayed with small (lower case) keys.
4. Tick the **Use gestures...** check box to replace the functions of the space, backspace, Enter and Shift keys by carrying out specific gestures. In this case you would have to do the following:
  - To enter the character which a key stands for, tap the key.
  - To enter the character assigned to the shift function, tap the key and carry out an upward sweeping movement.
  - To enter a space, tap any key and carry out a sweeping movement to the right.
  - To move one digit to the left and to delete the digit in the process, tap any key and carry out a sweeping movement to the left.
  - To actuate the Enter key, tap any key and carry out a downward sweeping movement.
5. Tap **OK** to confirm your settings.

The **Input Panel Properties** dialog appears again.

6. Complete your settings by tapping **OK**.

### 3.4 Setting the Date and Time

1. Tap the Service tool key.
2. Then tap the **Date/Time** icon.

The **Date/Time Properties** dialog opens.

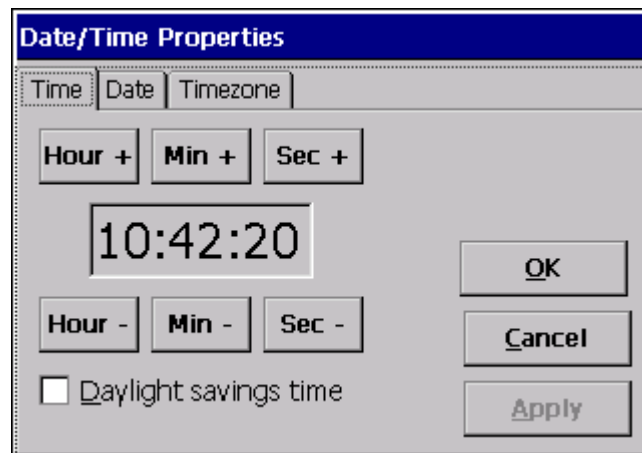


Figure 3-13 Date/Time Properties dialog, Time index card

The **Time** index card is displayed by default.

The current time setting is shown in the center section of the index card.

To change the time setting, carry out the following steps:

1. To set the hours, tap the **Hour+** and **Hour-** buttons.
2. To set the minutes, tap the **Min+** and **Min-** buttons.
3. To set the seconds, tap the **Sec+** and **Sec-** buttons.
4. To switch to summer time, tick the **Daylight savings time** check box.

To change the date setting, carry out the following steps:

1. Open the **Date** index card.

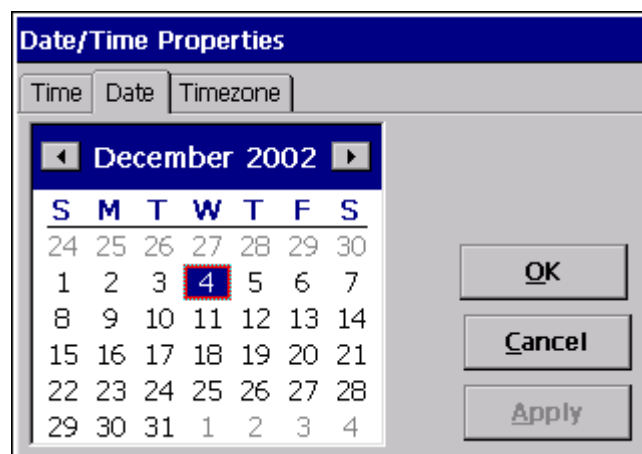


Figure 3-14 Date/Time Properties dialog, Date index card

The calendar page shows the current date setting.

2. To set the month and year, tap the right and left arrows.
3. To set the day, tap the number for the corresponding day.

To change the time zone setting, carry out the following steps:

1. Open the **Timezone** index card.

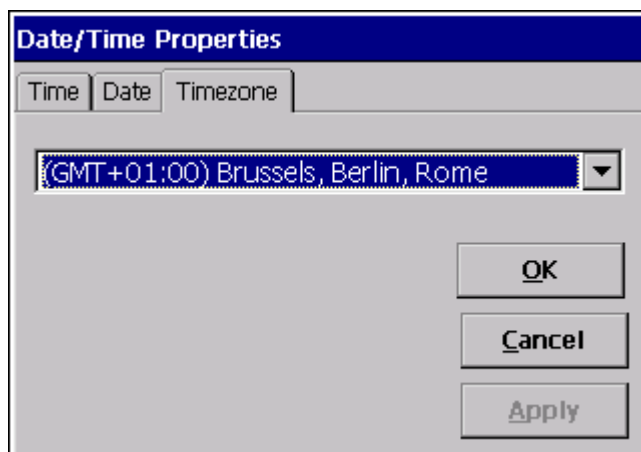


Figure 3-15 Date/Time Properties dialog, Timezone index card

2. To open a list with the time zones, tap the down arrow.
3. To navigate to the appropriate time zone, tap the up and down arrows.
4. To select a time zone, tap the name of the appropriate time zone.
5. Tap **OK** to confirm your settings.



Date and time settings are saved only on devices that are equipped with a battery.

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### 3.5 Configuring the Display

1. Tap the Service tool key.
2. Then tap the **Display** icon.

The **Display** dialog opens.

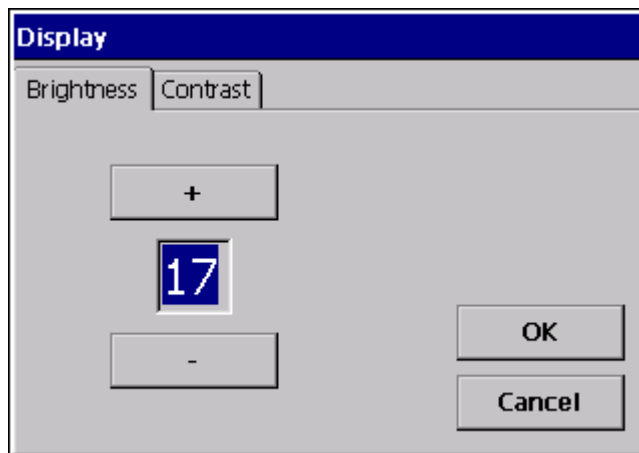


Figure 3-16 Display dialog, Brightness index card

The **Brightness** index card is displayed by default.

The current brightness setting for the display is shown in the center section of the index card.

To change the brightness setting, carry out the following steps:

1. To increase the brightness, tap the + button.
2. To decrease the brightness, tap the - button.

To change the contrast setting, carry out the following steps:

1. Open the **Contrast** index card.

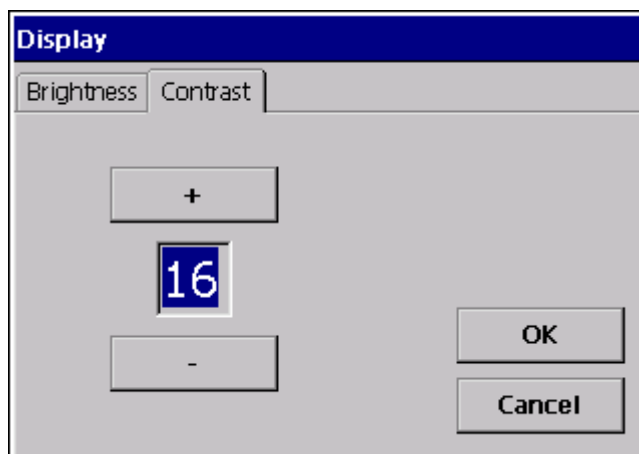


Figure 3-17 Display dialog, Contrast index card

2. To increase the contrast, tap the + button.
3. To decrease the contrast, tap the - button.
4. Tap **OK** to confirm your settings.

### 3.6 Viewing the Process List

The process list displays a list of all current processes and either of the modules or of the threads.

1. Tap the Service tool key.
2. Then tap the **Processes** icon.

The **ProcessViewer** window opens.

ProcessViewer						
Processes View						
Process	CPU-Usage (%)	Time (User Mode)	Time (Kernel Mode)	PID	Num. Threads	
Idle	90.7					
maapp.exe	0.0	00:00:00.109		8CCA01EE	2	
rapisrv.exe	4.5	00:00:00.686		8CC991DA	4	
repllog.exe	0.4	00:00:00.156		8CEF76E6	2	
servicetool	1.5	00:00:26.641		8CF8D78E	2	
explorer.exe	0.1	00:00:01.785		8CDC687E	3	
gwes.exe	0.0	00:00:00.850	00:00:00.011	8CED6856	8	
device.exe	2.6	00:00:10.287		8CFDB886	32	
matrxscanner...	0.0	00:00:00.008		CD6436	2	
filesys.exe	0.0	00:00:02.157		CFECC7A	1	
NK.EXE	0.0	00:00:00.308		CFEF002	1	

Module Name	HModule	Global Usage	Local Usage	Base Address	Base Size	Full Path
coredll.dll	8CFEF50	103	7	33030144	487424	\\Windows\\coredll.dll
winsock.dll	8CFA4880	20	1	30343168	36864	\\Windows\\winsock.dll
ole32.dll	8CF8611C	6	5	27787264	491520	\\Windows\\ole32.dll
rpcrt4.dll	8CF86498	8	5	27131904	327680	\\Windows\\rpcrt4.dll
lpctrl.dll	8CF866E4	8	5	28901376	20480	\\Windows\\lpctrl.dll
asform.dll	8CDB8000	4	4	21954560	102400	\\Windows\\asform.dll
oleaut32.dll	8CDB86CC	5	5	27590656	188416	\\Windows\\oleaut32.dll
ceshell.dll	8CDB8AA0	3	3	21626880	315392	\\Windows\\ceshell.dll
commctrl.dll	8CDB8CA0	6	3	32440320	299008	\\Windows\\commctrl.dll
webview.dll	8CDAD830	1	1	20905984	532480	\\Windows\\webview.dll
imgdecmp.dll	8CDADB14	1	1	21495808	126976	\\Windows\\imgdecmp.dll
wininet.dll	8CDADD88	1	1	25427968	405504	\\Windows\\wininet.dll
ieccext.dll	8CDA10E4	1	1	26017792	53248	\\Windows\\IECCExt.dll
shlwapi.dll	8CDA1348	1	1	25886720	102400	\\Windows\\shlwapi.dll

Figure 3-18 ProcessViewer window

This window displays all currently executed processes.

To refresh the process screen, carry out the following steps:

1. Open the **Processes** menu.
2. Tap the **Refresh** menu item.



You can also refresh the screen by tapping the Refresh icon.

To have the screen refreshed automatically, carry out the following steps:

1. Open the **Processes** menu.
2. Tap the **Update (auto.)** menu item.

A dot is displayed next to the **Update (auto.)** menu item.

To display the modules, carry out the following steps:

1. Open the **View** menu.
2. Tap the **Modules** menu item.

A dot is displayed next to the **Modules** menu item.

To display the threads, carry out the following steps:

1. Open the **View** menu.
2. Tap the **Threads** menu item.

A dot is displayed next to the **Threads** menu item.

To exit the process list, carry out the following steps:

1. Open the **Processes** menu.
2. Tap the **Exit** menu item.

### 3.7 System Info

1. Tap the Service tool key.
2. Then tap the **Systeminfo** icon.

The **Systeminfo** window opens.

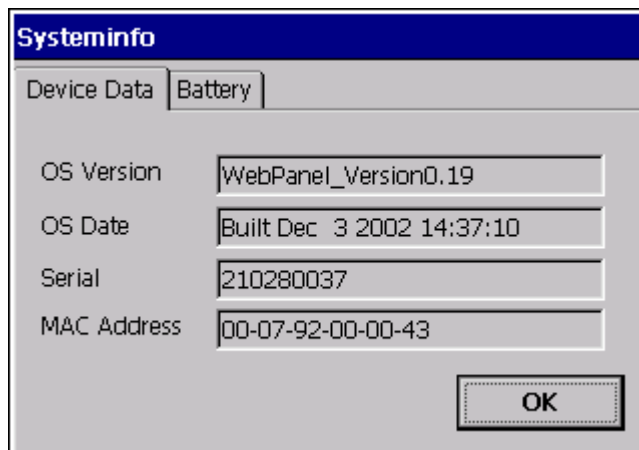


Figure 3-19 Systeminfo window, Device Data index card

The **Device Data** index card is displayed by default.

The following information is shown on this card:

- OS Version = Operating system Kernel
- OS Date = Date when Kernel was created
- Serial = Serial number of the device
- MAC Address = MAC address of the LAN interface

To check the status of the battery, carry out the following steps:

1. Open the **Battery** index card.



Figure 3-20 Systeminfo window, Battery index card

The following status can be displayed:

Battery OK	Battery is in good condition
No battery found	Battery is drained or no battery attached

### 3.8 Setting up the Password

The password protection becomes active when the operator attempts to call up the Service tool or the Task Manager from within the running application.



**The TesiP@n is provided with password protection ex-works!**  
**The password is „x“.**

To set up the password carry out the following steps:

1. Tap the Service tool key.
2. Then tap the **Password** icon.

The **Password** dialog opens.

Figure 3-21 Password dialog

3. Enter a password into the **Password** field.

An asterisk will be displayed for each entered character!

4. Enter the same password once more into the **Confirm password** field.
5. Tick the **Enable password protection** check box.

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### 3.9 Activating/Deactivating the Visualization

Launch the **Visu** software to place the operating device into either the operating mode Standard or the operating mode Development.

#### Operating mode Standard

Use the Standard operating mode to start the Runtime of the visualization software. The project to be executed must be stored on the Compact Flash card plugged into the device.

The Windows CE user interface is not started. The Servicetool key and the Taskmanager key are password protected.



**The TesiP@n is factory-set to use password protection !  
The password is „X“.**

#### Operating mode Development

Use the Development operating mode to start the Transport Service of the visualization software.

The Windows CE user interface is started also. The Servicetool key and the Taskmanager key are not password protected.

After a reboot, the device will be in the operating mode which was active before the device was rebooted.

To start the **Visu** function, carry out the following steps:

1. Tap the Servicetool key.
2. Then tap the **Visu** icon.

This opens the Visu dialog.

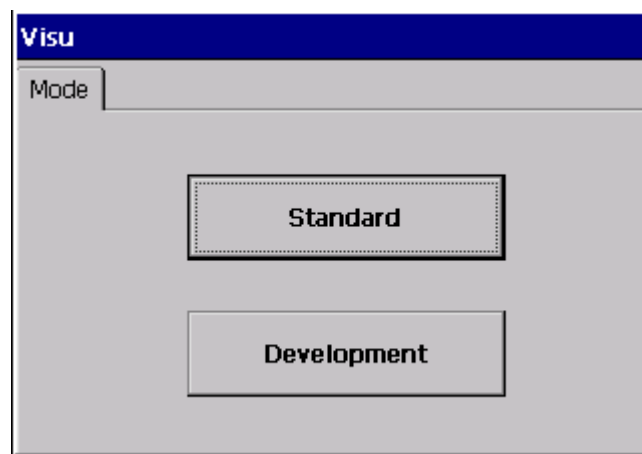


Figure 3-22 Visu dialog

3. Tap either the **Standard** button or the **Development** button to activate the desired operating mode.

## 4 Applications

TesiP@n graphic panels are used to display process variables and process sequences graphically and to change them, if necessary.

You create the visualization application on your PC using a corresponding editing software. TesiP@n graphic panels have a Runtime preinstalled. Therefore you simply need to load the visualization application into the device.

Described below is how you load the visualization application into the TesiP@n device, define device specific settings and launch the visualization application. A description of the visualization application functionality is outside of the scope of this manual!



For further information on the editing software see the online help or the documentation supplied by the manufacturer.

## 4.1 Visualizing with zenOn

To keep the size of this manual compact, it is assumed that you are already familiar with the COPA-DATA software zenOn.

### 4.1.1 Setting the Screen Resolution for the Operating Device

You can specify the screen resolution of your operating device in order to have the visualization screens scaled to fit the size of the target hardware when you create them. If you do not have the size fitted, the device will zoom the screen as necessary. But the results may not be optimal.

To set the screen resolution, carry out the following steps:

1. Launch the zenOn editor.
2. Open a project.
3. Select **Project Configuration/Monitor Administration** from the File menu.

The **Screen Configuration** dialog opens.

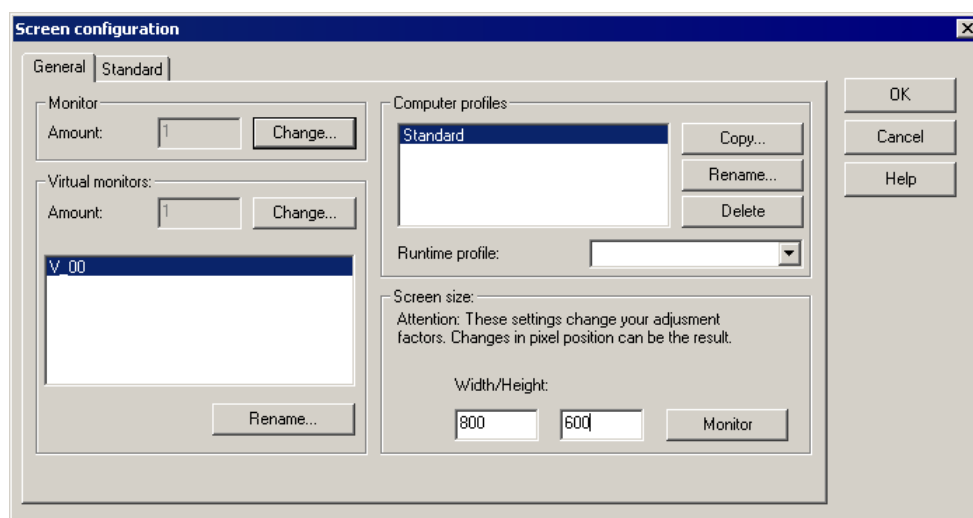


Figure 4-1 Screen Configuration dialog

4. Enter the width and the height for the display of your TesiP@n device into the **Screen Size** field.

Table 4-1 Sizes of TesiP@n displays

TesiP@n	Width	Height
TP057	320	240
TP104	640	480
TP121	800	600
TP151	1024	768

5. Tap **OK** to confirm your settings.

### 4.1.2 Specifying the Start-up Screen

After booting the operating device, the screen you specified in the project management function as the start-up screen of your visualization application appears.

To specify the start-up screen, carry out the following steps:

1. Launch the zenOn editor.
2. Open a project.
3. Select **Project Configuration/Project** from the **File** menu.

The **Configuration Project** dialog opens.

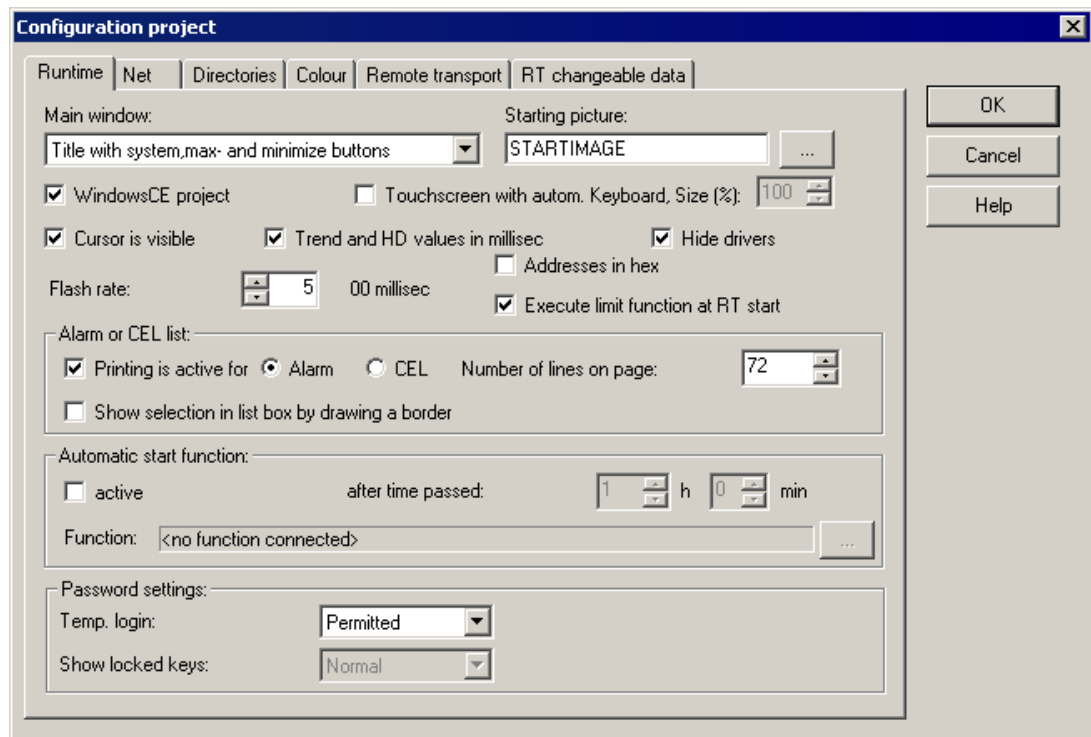


Figure 4-2 Configuration Project dialog

4. Open the **Runtime** index card, provided it is not already open.
5. Enter the name of the start-up screen into the **Starting Picture** field.
6. Tap **OK** to confirm your settings.

### 4.1.3 Setting-up the Remote Connection

We recommend using the Ethernet cable for connecting to the operating device. This provides the fastest means of exchanging data and remote control of the device.

To set-up the remote connection, carry out the following steps:

1. Launch the zenOn editor.
2. Open a project.
3. Select **Project Configuration/Project** from the **File** menu.

The **Configuration Project** dialog opens.

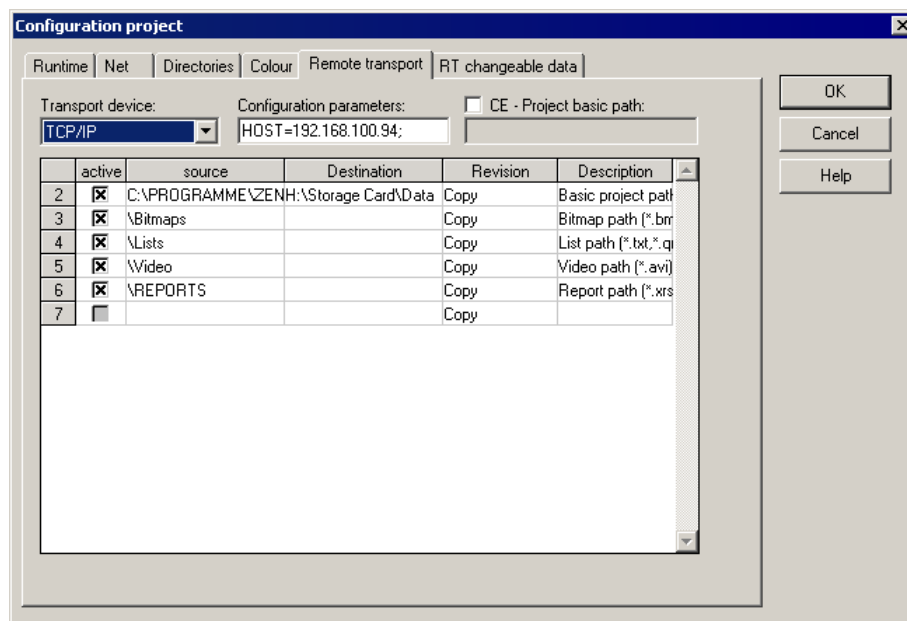


Figure 4-3 Configuration Project dialog

4. Open the **Remote Transport** index card.
5. Enter: „Target = drive and path of the operating device“ into the row containing the „Basic project path“ description of the table.

#### Target = Memory card in the device:

When specifying the target, it is of no relevance which letter you use for the memory card. Attention must, however, be paid to the path name. The default path is „\Storage Card\Data“.

The other path names in the table are relative paths referring to the basic path which you can use as is (no changes necessary).

6. Enter the IP address of the TesiP@n device into the **Configuration Parameters** field.

When you enter the IP address, make sure it complies with the syntax „HOST = IP address“. The IP address is marked on the operating device.

See „Entering the Computer Name“ on page 1-16.



### Target = Memory card in a CF card reading device

The drive letter you specify for the target must be entered exactly the same as listed in the Explorer. The folder name must be „Data“.

7. Enter „HOST = localhost“ into the **Configuration Parameters** field.
8. Tap **OK** to confirm your settings.

## 4.1.4 Loading the Visualization Application into the Device

The visualization application must be located on the Compact Flash card. When the visualization application is started, the device automatically accesses the memory card and launches the application stored there.

### 4.1.4.1 Loading the Visualization by Remote Connection

To load the visualization application by remote connection, use the Ethernet cable for connecting the TesiP@n device to an existing network.

To load the visualization application into the device, carry out the following steps:

1. Start-up the operating device.
2. Switch the device to the operating mode **Development**, if it is not already started-up in this mode.



See „Activating/Deactivating the Visualization“ on page 1-25.

The Transport Service program is launched.



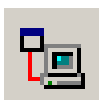
Figure 4-4 Transport Service program

The Transport Service program is active immediately. The **Configuration** field displays the communication connection setting. If you want to change the setting, first tap the **Stop** button.

3. Start the zenOn editor on the PC.
4. Open a project.
5. Create the Runtime files for the open project.
6. Click the icon „Establishing remote connection“ in the toolbar.

After the connection has been successfully established, the neighboring icons become active.

7. Click the icon „Remote transport all project files“ in the toolbar.



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You can monitor the status of the loading process in the **Output Editor** window. After the visualization application has been successfully loaded, you can activate the **Standard** operating mode.



See „Activating/Deactivating the Visualization“ on page 1-25.

#### 4.1.5 Deleting the Visualization from the Compact Flash Card

The visualization application is stored in the **\Storage Card\Data\Project name** path of a Compact Flash card.

If you want to delete all visualization data, delete the folder **Project name** and its contents.

To delete the folder, carry out the following steps:

1. Double-tap the icon **My Computer** on the desktop.

The Windows Explorer opens.

2. Double-tap **Storage Card**.
3. Double-tap **Data**.
4. Select the folder which has the same name as the project.
5. Tap the icon **Delete** in the toolbar.



## 4.2 Visualizing with WEB Studio

To keep the size of this manual compact, it is assumed that you are already familiar with the Indusoft software Web Studio.

### 4.2.1 Defining the Screen Resolution of the Operating Device

You can specify the screen resolution of your TesiP@n device so that the screens of the visualization application are scaled to fit the target hardware size when they are created. You can specify this information when you create a new project or later as „screen attributes“. If you do not have the size scaled, the screen may be cropped (only a part of the screen will be displayed) or it may only fill the top left corner of the display.

To define the screen resolution setting, carry out the following steps:

1. Launch the InduSoft software Web Studio.
2. Select **New** from the **File** menu.

The **New** dialog opens.

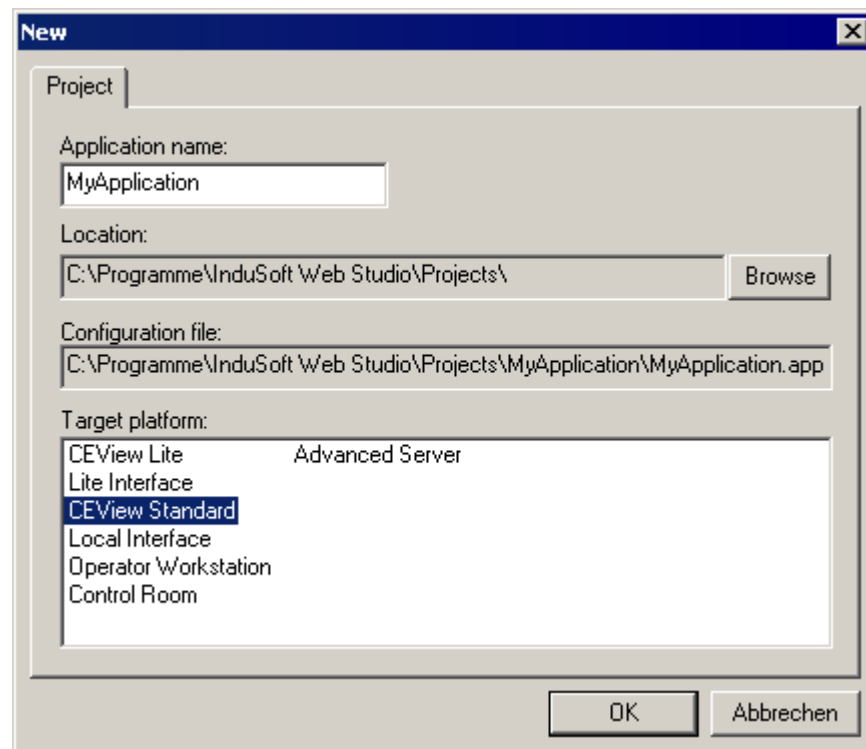


Figure 4-5 New dialog

3. Enter a name for the new project into the **Application name** field.
4. Select the name of the Runtime which you purchased with the device (**CEView Lite** or **CEView Standard**) in the list **Target platform**.
5. Tap **OK** to confirm your settings.

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The **Project Wizard** dialog opens.

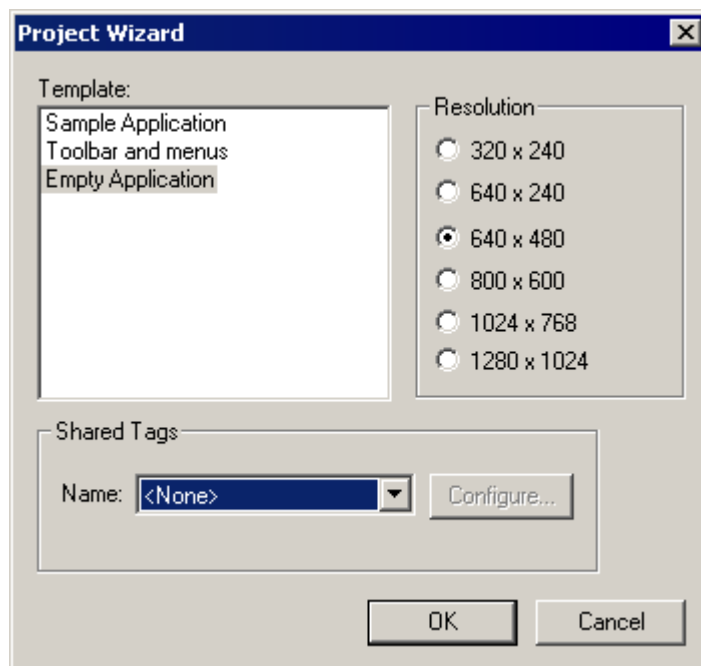


Figure 4-6 Project Wizard dialog

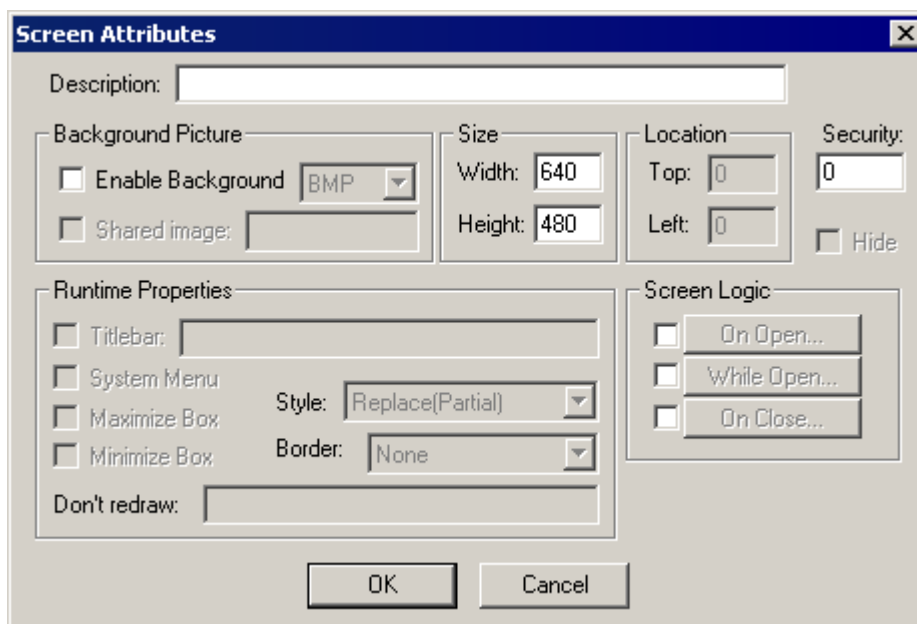
6. Select the resolution for the TesiP@n device from the selection list **Resolution**.

Table 4-2 Size of TesiP@n displays

TesiP@n	Width	Height
TP057	320	240
TP104	640	480
TP121	800	600
TP151	1024	768

7. Define all other settings for the new project.
8. Tap **OK** to confirm your settings.

When you insert a new screen into the project, this screen automatically has the resolution preset in the **Size** field of the following dialog.



5530

Figure 4-7 Screen Attributes dialog

## 4.2.2 Project Settings

The taskbar of Windows CE takes up valuable display space of a visualization application, which is why it is hidden in most cases. You can hide the Windows CE taskbar by activating the corresponding option in the project settings. Note that the factory-preinstalled Windows CE is already set to hide the taskbar in the operating mode **Standard**. This means that activating this function again in the project settings may cause malfunctions!

To deactivate the function in Web Studio responsible for hiding the taskbar, carry out the following steps:

1. Launch the InduSoft software Web Studio.
2. Select **Settings** from the **Project** menu.

The **Project Settings** dialog opens.

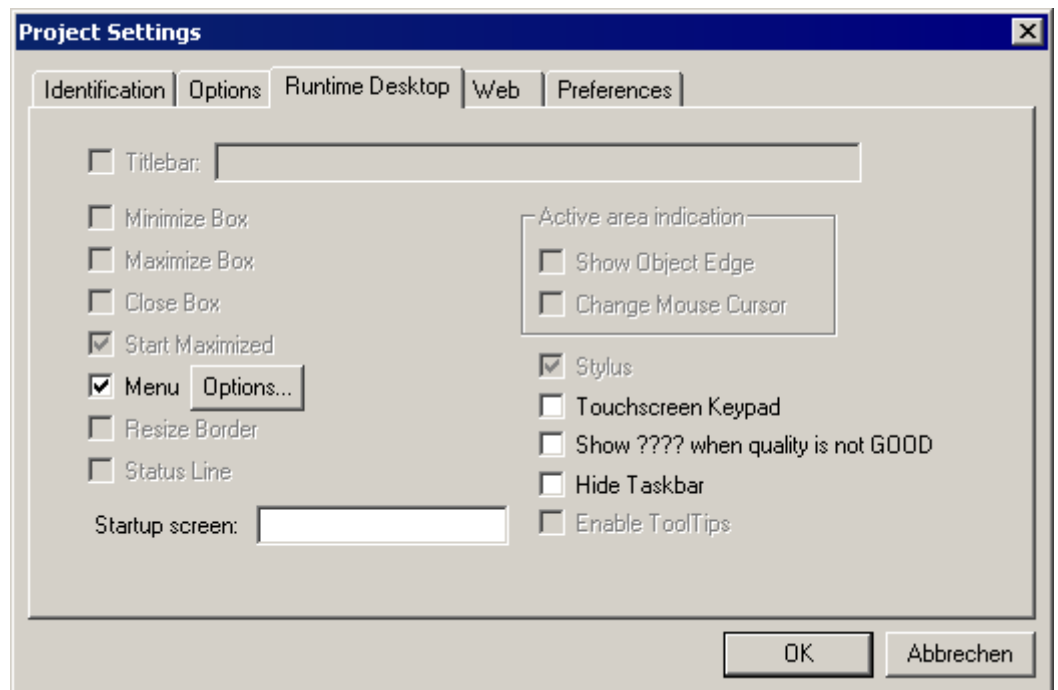


Figure 4-8 Project Settings dialog, Runtime Desktop index card

3. Open the Runtime Desktop index card.
4. Unselect the **Hide Taskbar** check box if it is selected.
5. Enter the name of the screen which you want to be displayed as the first screen of the project into the **Startup Screen** field.
6. Tap **OK** to confirm.

### 4.2.3 Setting-up the Remote Connection

We recommend using the Ethernet cable for connecting to the TesiP@n device. This provides the fastest means of exchanging data and remote control of the device.

To set-up the remote connection, carry out the following steps:

1. Launch the InduSoft software Web Studio.
2. Open a project.
3. Select **Execution Environment** from the **Project** menu.

The **Execution Environment** dialog opens.

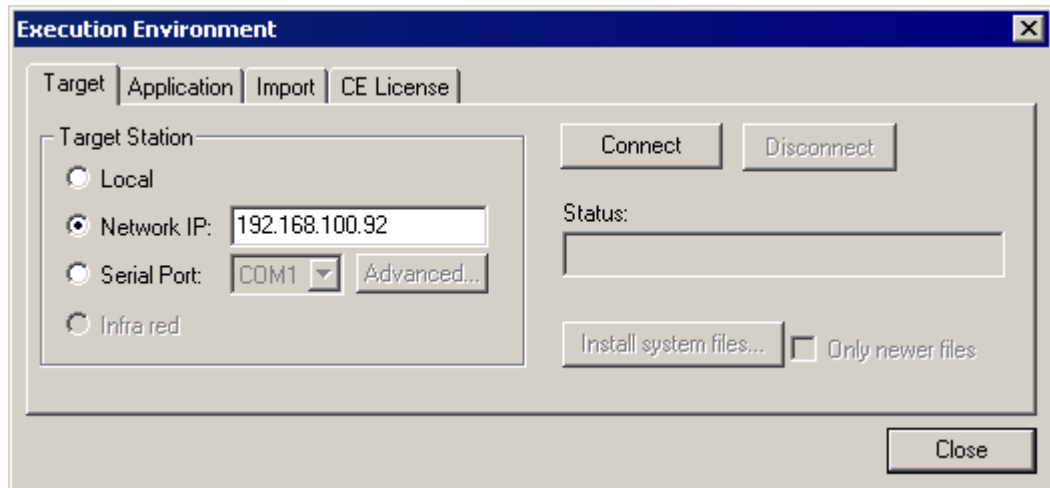


Figure 4-9 Execution Environment dialog

4. Open the **Target** index card, if it has not opened automatically.
5. Select the **Network IP** check box.
6. Enter the IP address of the TesiP@n device into the field next to the check box.



See „Entering the Computer Name“ on page 1-16

#### 4.2.3.1 Loading the Visualization Application by Remote Control

To load the visualization application by remote connection, use the Ethernet cable for connecting the TesiP@n device to an existing network.

To load the visualization application into the device, carry out the following steps:

1. Start-up the TesiP@n device.
2. Switch the device to the operating mode „Development“, if it has not already started up in this mode.



See „Activating/Deactivating the Visualization“ on page 1-25

The Remote Agent is started.

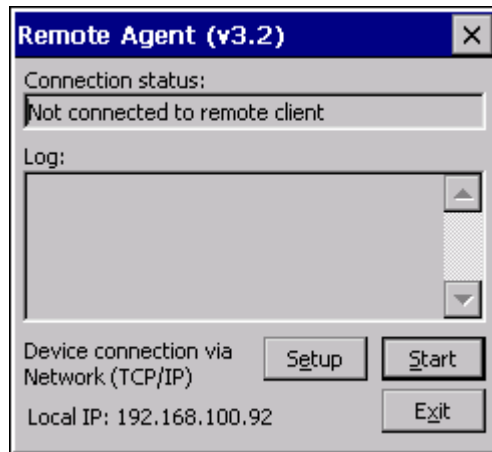


Figure 4-10 Transport Service program

The Remote Agent software becomes active immediately.

3. Launch the InduSoft software Web Studio on the PC.
4. Open a project.
5. Select **Execution Environment** from the **Project** menu.

The **Execution Environment** dialog opens.

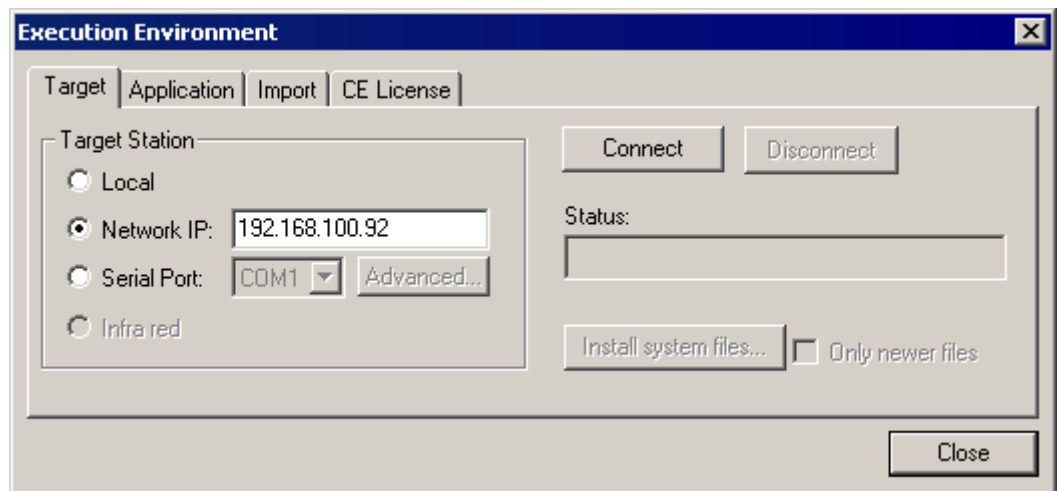


Figure 4-11 Execution Environment dialog

6. Open the **Target** index card, if it has not opened automatically.
7. Click the **Connect** button.

After the connection has been established, the **Status** field displays „Connected to CEView v5.1“.

8. Open the Application index card.

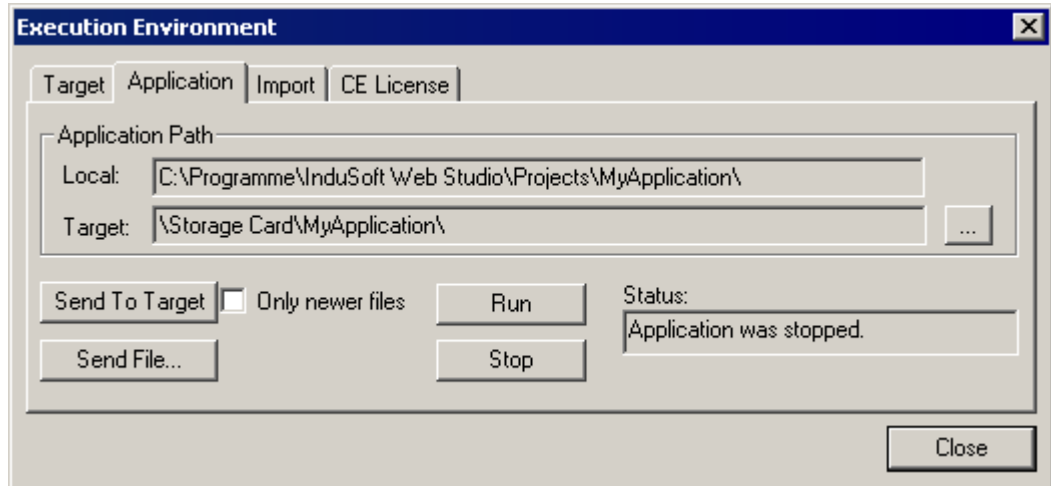


Figure 4-12 Execution Environment dialog, Application index card

9. Click the **Send To Target** button.

A **Sending To Target** window appears temporarily allowing you to monitor how the loading process progresses. You can use the **Run** button or the **Stop** button to remotely start and stop the operating device so you can test the visualization application.

If the visualization test was successful, you can activate the operating mode **Standard** on the operating device.



See „Activating/Deactivating the Visualization“ on page 1-25.

#### 4.2.4 Deleting the Visualization from the Compact Flash Card

The visualization application is stored in the **\Storage Card\Data\Project name** folder of the Compact Flash card.

If you want to delete all visualization data, delete the folder **Project name** and its contents.

To delete the folder, carry out the following steps:

1. Double-tap the **My Computer** icon on the desktop.

The Windows Explorer opens.

2. Double-tap **Storage Card**.
3. Double-tap **Data**.
4. Select the folder with the name of the project.
5. Tap the **Delete** icon in the toolbar.



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## B List of Connecting Cables

Preassembled cables are available for the connections listed below.

When ordering a cable, please enter the cable length in place of 'xxx' .

**Example:**

Cable for ABB CS31 with a length of 5.5 meters = 88 167.055

Table A-1 Connecting cable

Manufacturer	Protocol	Interface	Part Number
Bosch CL200/300/500	BUEP19/19E	TTY (COM2)	88 144.xxx
Siemens S5 PG	AS511	TTY (COM2)	88 133.xxx

You can not conclude from the fact that a cable is listed that ZenOn or Web Studio actually support the corresponding protocol!

B.1 Bosch BUEP19/BUEP19E

Cable for connection to the TTY interface of the controller.

Operating Device  
Transmitter Active  
Receiver Active

Bosch  
e.g. Z301  
Transmitter Passive  
Receiver Passive

2480

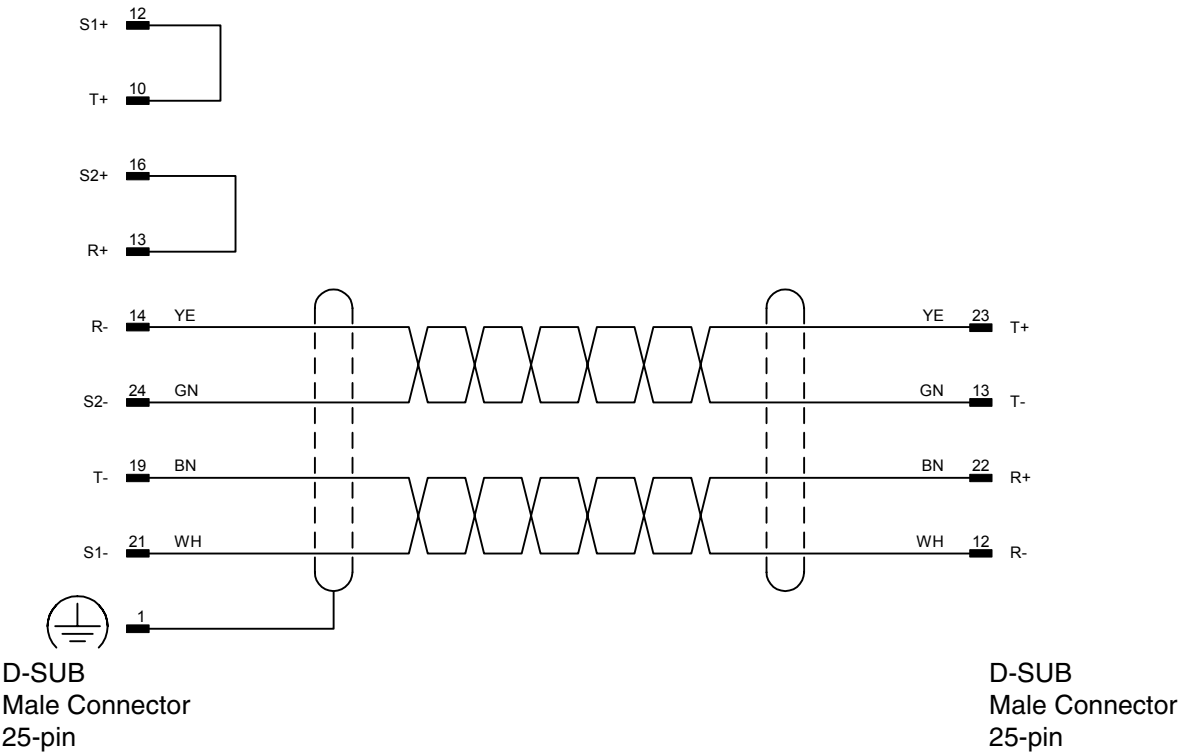


Figure A-2 Cable for Bosch BUEP19/BUEP19E

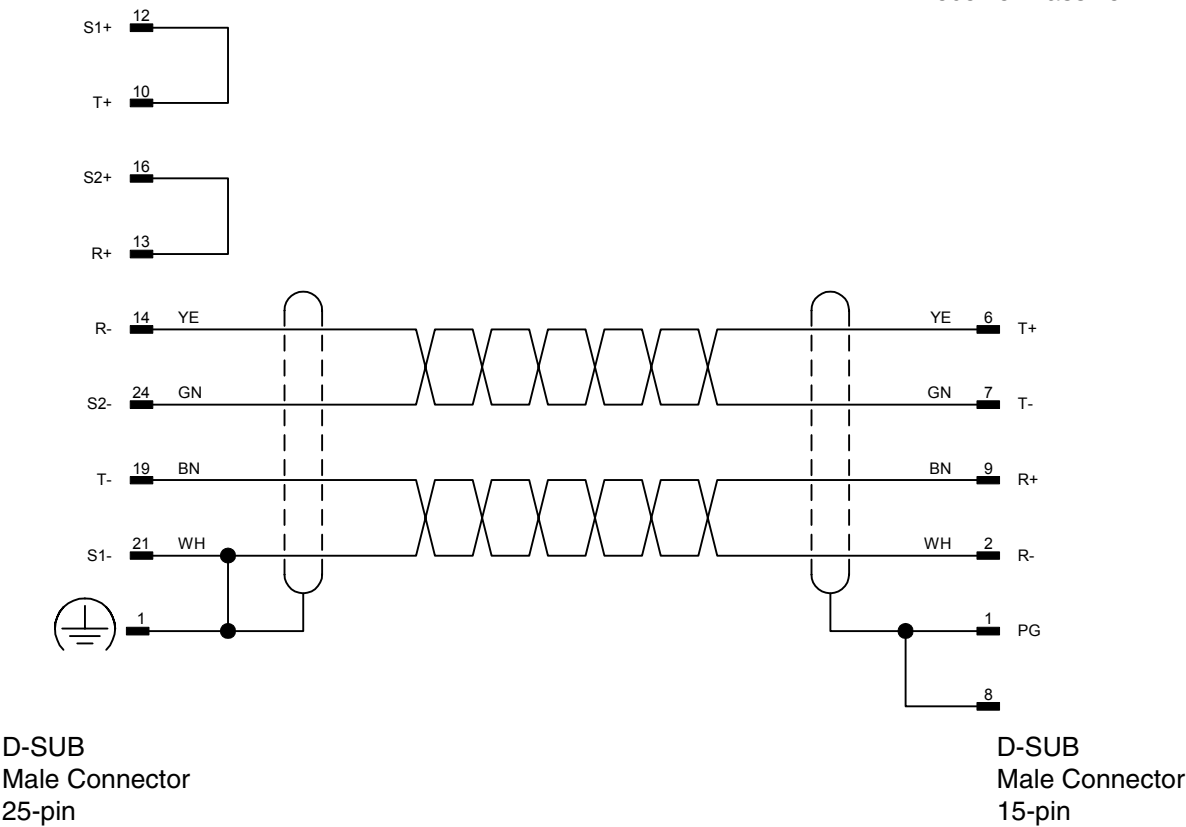
B.2 Siemens S5 PG AS511

Cable for connection to the TTY interface of the controller.

Operating Device  
Transmitter Active  
Receiver Active

Siemens  
Simatic S5  
Transmitter Passive  
Receiver Passive

1750







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